

L Number	Hits	Search Text	DB	Time stamp
3	389	((623/1.1) or (623/1.15) or (623/1.16) or (623/1.3) or (623/1.1) or (623/1.49)).CCLS.) and graft	USPAT; US-PGPUB; EPO; DERWENT	2002/06/02 11:00
4	27	((623/1.1) or (623/1.15) or (623/1.16) or (623/1.3) or (623/1.1) or (623/1.49)).CCLS.) and graft) and ether	USPAT; US-PGPUB; EPO; DERWENT	2002/06/02 11:00
5	2	((623/1.1) or (623/1.15) or (623/1.16) or (623/1.3) or (623/1.1) or (623/1.49)).CCLS.) and graft) and ether) and mdi	USPAT; US-PGPUB; EPO; DERWENT	2002/06/02 11:01



Guide to Elast-EonTM Medical Polymers

Material Family	Chemistry	Features	Examples of Potential Applications	Range of Possible Grades
Elast-EonTM 1	Polyhexamethylene oxide (PHMO), aromatic polyurethane	Improved environmental resistance over PTMO polyurethanes	Short term implants for up to 29 days E.g. EP or angioplasty catheters	80A-75D (Shore)
Elast-EonTM 2	Siloxane based macrodiol, aromatic polyurethane	Biostability indistinguishable from Pellethane [®] 55D Additive free	Long term implants E.g. pacing and defibrillation leads, vascular devices, stent-grafts, PICC lines, LVAD sacs	80A-55D (Shore)
Elast-EonTM 3	Siloxane based macrodiol, modified hard segment, aromatic polyurethane	Flexibility approaching that of silicone, biostability indistinguishable from Pellethane [®] 55D Additive free	Long term implants requiring high flexibility E.g. membranes, finger joints, vascular devices, catheters for neurological use	65A-80A (Shore)
Elast-EonTM 4	Modified aromatic hard segment polyurethane	Rigid material with high heat distortion temperature Additive free	Long term implants requiring "structural strength" E.g. pacemaker, LVAD housings, orthopaedic implants	55D-85D (Shore)

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